

# D-150A II

## D SERIES



**R**ecording studios, auditoriums, churches, traveling sound companies, discos, and sports arenas throughout the world have recognized the Crown D-150A II power amplifier as a standard of audio excellence. The D-150A Series II continues this tradition as a well-designed, thoroughly safe and reliable amplifier. Its rugged front panel with scratch-resistant, baked enamel finish features an convenient level control for each channel.

Its patented Crown AB+B circuitry is still the model for ultra-low distortion. Its self-protection circuits make it immune to shorted, open or mismatched loads, difficult impedance loads and miswiring or physical abuse. We even include our famous IOC® (Input/Output Comparator) circuitry to give you visual *proof of performance*. The IOC indicators act as sensitive distortion indicators and flash if distortion of any kind exceeds 0.05%!

And its backed by the best support in the industry—including a three-year transferrable “No-Fault” warranty.<sup>1</sup> We even pay round-trip ground shipping in the US for all warranty repairs made by the factory and the warranty can be extended an additional three years for a total of six years of “No-Fault” protection.

The D-150A II is not the kind of product that can be easily made obsolete. Its cost efficiency and maintenance-free long life make an excellent choice for cost-conscious sound reinforcement and recording systems.

## Specifications

### Feature Summary

**Distortion Indicator:** Advanced IOC (Input/Output Comparator) alerts the user in the unlikely event that distortion of any kind exceeds 0.05%.

**Exceptionally Low Distortion:** AB+B design results in very low distortion.

**Bridge-Mono Mode:** Bridge-Mono mode is provided for double output voltage.

**Passive Cooling System:** Convection cooling with massive heatsinks and thermal-coupled chassis.

**No-Fault Warranty:** A 3-year standard “No-Fault” warranty<sup>1</sup> which may be extended for an additional three years. Includes round-trip shipping.

### Performance

**Note:** The following performance measurements were made in Stereo mode with both channels driven into an 8 ohm load.

**Frequency Response:**  $\pm 0.1$  dB from DC (0 Hz) to 20 kHz at 1 watt.

**Phase Response:**  $+0^\circ$ ,  $-15^\circ$  from DC (0 Hz) to 15 kHz at 1 watt.

**Signal to Noise Ratio:** 110 dB (20 Hz to 20 kHz) at full output.

**Total Harmonic Distortion (THD):**  $<0.001\%$  from 20 Hz to 400 Hz and increasing linearly to 0.05% at 20 kHz at 80 W.

**Intermodulation Distortion (IMD):**  $<0.05\%$  from 10 mW to 0.25 W and  $<0.01\%$  from 0.25 W to 80 W.

**Slew Rate:** 6 V per microsecond.

**Damping Factor:**  $>400$  from DC (0 Hz) to 400 Hz.

### Power

#### Output Power

**Note** Maximum average power at 1 kHz with 0.1% THD.

**Stereo:** 155 W per channel into 4 ohms. 95 W into 8 ohms.

**Bridge-Mono:** 315 W into 8 ohms.

**Load Impedance:** Rated for 16, 8, 4 ohm use. Safe with all types of loads, even reactive ones.

**Required AC Mains:** 50-400 Hz AC with selectable transformer taps for 100, 120, 200, 220 and 240 V ( $\pm 10\%$ ) operation.

**AC Line Connector:** Standard three-wire grounded connector.

### Controls

**Power:** A pushbutton located on the front panel to turn the amplifier on and off.

**Level:** A signal level control for each channel, located on the front panel.

**Balance:** Non-inverting DC balance controls mounted behind the front panel.

**Stereo-Mono:** A two-position switch located on the back panel selects between Stereo and Bridge-Mono modes of operation.

### Indicators

**Power:** An amber indicator which shows the unit has been turned on.

**IOC:** Normally off, these red indicators flash in the rare event the output waveform differs from that of the input by 0.05% or more.

### Input/Output

**Input Connector:** Unbalanced 1/4-inch phone jack for each channel.

**Input Impedance:** Nominally 25 K ohms.

**Input Sensitivity:**  $1.19 \text{ V} \pm 2\%$  for rated power into 8 ohms. Optional 0.775 V sensitivity.

**Output Connector:** Color coded binding posts (banana jacks).

**Output Impedance:**  $<15$  milliohms in series with  $<3$  microhenries.

### Construction

All aluminum construction for maximum heat conduction and minimum weight. Polyester vinyl coated metallic grey front panel with lexan insert. The front panel is a single aluminum extrusion.

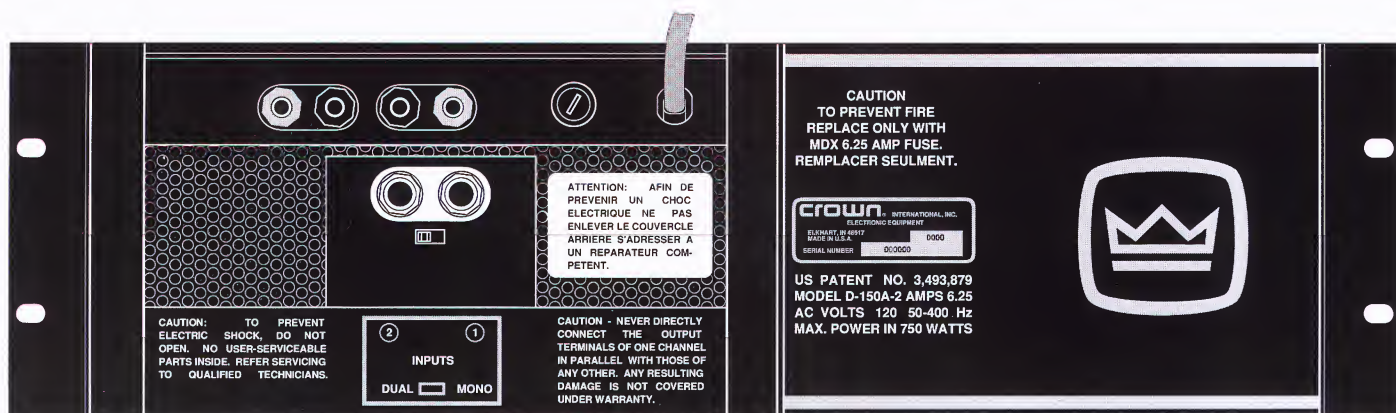
**Dimensions:** 19 in. (48.3 cm) wide, 5.25 in. (13.3 cm) tall, 8.75 in. (22.2 cm) deep behind front mounting surface.

**Weight:** 24 lbs (10.9 kg).

**Mounting:** Standard EIA 310 front-panel rack mounting.

<sup>1</sup> Please contact a Crown representative for full details.





### Architect's Specifications

The power amplifier, being of two channels, shall deliver a minimum of 75 watts into 8 ohms with both channels operating, or 125 watts into loads of 4 ohms each with both channels operating. When strapped into mono mode, it shall be capable of delivering 160 watts into a 16 ohm load or 250 watts into an 8 ohm load. The amplifier's outputs shall have internal protection against possible shorted, mismatched and open circuits. The circuitry shall incorporate voltage amplifiers whose slew rate is controlled to protect the overall amplifier against RF burnout. The amplifier shall provide (in dual channel operation) a voltage gain of 20.6:1  $\pm 2\%$  or 26.3 dB  $\pm 0.2$  dB at maximum gain, have an input sensitivity of 1.19 volts  $\pm 2\%$  for full rated output and be capable of driving any load safely, including completely reactive loads (0.775 V input sensitivity optional). Hum and noise shall be 110 dB below rated output from 20 Hz to 20 kHz. Intermodulation distortion shall be less than 0.05% from 0.01 watt to 0.25 watt, and less than 0.01% from 0.25 watt to 75 watts into 8 ohms, per channel. The dimensions shall allow for standard 19 inch (48.3 cm) EIA rack mounting. It shall be 5.25 inches (13.3 cm) high and 8.75 inches (22.2 cm) deep from the mounting surface. It shall weigh 24 pounds (10.9 kg) net. The power requirements shall be 50-400 Hz AC with power transformer taps for 100, 120, 200, 220 or 240 V  $\pm 10\%$ . At idle the amplifier shall draw 30 watts or less. The amplifier shall be class AB+B and be of completely solid state design with a frequency response from DC to 20 kHz of  $\pm 0.1$  dB at 1 watt into 8 ohms. The power amplifier shall be a Crown D-150A Series II.

### Crown's 3-Year No-Fault Amplifier Warranty And 3+3 No-Fault Extended Warranty

Crown International now offers a 3-Year No-Fault Warranty for every new Crown amplifier—an industry standard. With this unprecedented No-Fault protection, your new Crown amplifier is warranted to meet or exceed original specifications for the first three years of ownership. During this time, if your amplifier fails *for any reason* or does not perform to original specifications, it will be repaired or replaced at our expense. This includes parts, labor and round-trip shipping, even a shipping carton should you need one. About the only things not covered by this warranty are those losses normally covered by insurance and intentional abuse. And the coverage is transferable should you ever decide to sell your amp.

That's not all; for a modest fee, Crown will extend that protection for an additional three years with our 3+3 No-Fault Extended Warranty. Now that's commitment.

See your Crown dealer for full warranty disclosure and details on the No-Fault and 3+3 No-Fault Extended Warranty.



Made in U.S.A. Exported as Amcron  
P.O. Box 1000  
Elkhart Indiana 46515-1000  
TEL: 219/294-8000  
FAX: 219/294-8329 Crown Division  
219/294-8346 Amcron Division  
TWX: 810/294-2160